

# INTERNATIONAL SEARCH REPORT

International Application No  
**PCT/EP2004/014860**

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 F28D15/02 B64D13/08 B64D11/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 F28D B64D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 499 736 A (KLEEN NILS ERLAND AF) 7 March 1950 (1950-03-07)	1-6,8, 10, 13-15, 17,18
Y	the whole document	8,9,11, 12
Y	US 5 966 951 A (HALLIN ET AL) 19 October 1999 (1999-10-19) column 6, lines 35-62; figure 4	8,9,11, 12
X	GB 1 526 160 A (ERICSSON TELEFONAB LM) 27 September 1978 (1978-09-27) the whole document	1-5,10, 18
A	GB 1 595 961 A (THORN AUTOMATION LTD) 19 August 1981 (1981-08-19) page 1, line 95 - page 3, line 19; figures	1,18
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

5 April 2005

Date of mailing of the International search report

13/04/2005

Name and mailing address of the ISA  
 European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel: (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Salentiny, G

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/014860

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/159808 A1 (HOANG TRIEM T) 28 August 2003 (2003-08-28) columns 1,8,9; figures -----	1,18
A	US 6 220 338 B1 (GRANDI RENE VINCENT) 24 April 2001 (2001-04-24) -----	
A	US 5 267 608 A (COFFINBERRY ET AL) 7 December 1993 (1993-12-07) -----	

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/014860

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2499736	A	07-03-1950	NONE		
US 5966951	A	19-10-1999	CA	2240362 A1	24-12-1998
GB 1526160	A	27-09-1978	SE	411949 B	11-02-1980
			FR	2357986 A1	03-02-1978
			IT	1081523 B	21-05-1985
			SE	7607878 A	10-01-1978
GB 1595961	A	19-08-1981	NONE		
US 2003159808	A1	28-08-2003	AU	2002366705 A1	09-07-2003
			WO	03054469 A1	03-07-2003
US 6220338	B1	24-04-2001	FR	2763117 A1	13-11-1998
			AU	7662898 A	11-12-1998
			CA	2289584 A1	26-11-1998
			EP	0975922 A1	02-02-2000
			WO	9853260 A1	26-11-1998
US 5267608	A	07-12-1993	NONE		